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APPLICATION NO. FILING DATE 09/846,777 05/01/2001		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 4606
		Robert F. Zepf	USFFIL.097A	
20995 7	7590 02/19/2003			
KNOBBE MARTENS OLSON & BEAR LLP			EXAMINER	
2040 MAIN ST FOURTEENT	H FLOOR		MENON, KRISHNAN S	
IRVĮNE, CA	92014		ART UNIT	PAPER NUMBER
•			1723	0/
			DATE MAILED: 02/19/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		09/846,777	ZEPF, ROBE	RT F.			
Office Action S	Summary	Examiner	Art Unit	-			
		Krishnan S Menon	1723				
The MAILING DATE of this communication app ars on the cov r she t with the correspondence addresses Period for Reply							
A SHORTENED STATUTO THE MAILING DATE OF TH - Extensions of time may be available after SIX (6) MONTHS from the maili - If the period for reply specified above - If NO period for reply is specified above - Failure to reply within the set or exter - Any reply received by the Office later earned patent term adjustment. See	HIS COMMUNICATION. under the provisions of 37 CFR 1.1: ing date of this communication. is less than thirty (30) days, a reply voe, the maximum statutory period v inded period for reply will, by statute than three months after the mailing	36(a). In no event, however, m y within the statutory minimum ovill apply and will expire SIX (6) , cause the application to becor	ay a reply be timely filed of thirty (30) days will be considered MONTHS from the mailing date of ne ABANDONED (35 U.S.C. § 133	this communication.			
Status	vunication(s) filed on 06 (Doomhor 2002					
•	nunication(s) filed on <u>06 L</u>	is action is non-final.					
2a) This action is FINAL	,—		matters prosecution as	to the merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-19</u> is/are p	pending in the application	1.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are	allowed.		•	, i			
6)⊠ Claim(s) <u>1-19</u> is/are re	6)⊠ Claim(s) <u>1-19</u> is/are rejected.						
7) Claim(s) is/are	objected to						
8) Claim(s) are su	ubject to restriction and/o	r election requirement	•				
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
		n priority under 35 U.S	C & 119(a)-(d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detail							
14) Acknowledgment is ma				onal application).			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)		·					
Notice of References Cited (PTO 2) Notice of Draftsperson's Patent D Information Disclosure Statement	rawing Review (PTO-948)	5) Notic	view Summary (PTO-413) Pape e of Informal Patent Application r:				

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DETAILED ACTION

Claims 1-68 were pending in this application, of which claims 20-68 were cancelled.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- Claims 1-19 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Wang et. al. (US 6,146,747).

Wang (747) discloses a polymer membrane mesh (applicant uses 'mesh' to mean a coagulated structure with reticular network of flow channels; ref: specification page 2 last para to page 3 first para) comprising a surface with minimum pores and opposite surface with maximum pores, with a porous support in between the two surfaces. (col 6: 10-30). The average pore size of one of the surfaces would be greater than 50 microns by the pore size ratios defined by Wang (col 6 lines 11-30). In col 6 lines 11-30, Wang teaches that the microporous membrane has a surface with minimum pores and an opposite surface with maximum pores, and the ratio of the average diameter of the minimum pores to the average diameter of the maximum pores could be from 5 to as high as 500. Compare this with the isotropic microporous surface having minimum pore size of 0.1-3 microns, these ratios would give the opposite surface pore sizes from 50-1500 microns (See Table A, column labeled 'microporous surface' and lines 15, 17, 21, 22, and 24 for isotropic pores. Isotropic pore size would also be the average pore size, since isotropic means 'exhibiting properties of same

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values'; Miriam Webster's Dictionary). The membrane has a bubble point about 0.5 psi or more (col 6: 25-30) and water permeabilities in the range of 30,000 ml/min for a 90 mm dia disc at 10 psi pressure (col 7: 30-38). Membrane thickness is about 25 to 140 microns. Membranes can be made from polyosulfones (col 2: 39-58; col 3: 59-60); PVdF (col 5(45-65); hydrophilic (col 6: 39-63); hydrophilic component PVP; with ratio of polymer to hydrophilic component at 12/30 to 20/1.

Response to Arguments

Applicant's arguments filed 12/6/02 have been fully considered but they are not persuasive.

Applicant argues that after the amendment, the Wang (747) reference does not teach every element of claim 1, because Wang teaches only membranes with surface pores less than 50 microns. The examiner finds that Wang does teach membranes of surface pores greater than 50 microns as described in the rejection.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

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calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S Menon whose telephone number is 703-305-5999. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L Walker can be reached on 703-308-0457. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Krishnan S. Menon Patent Examiner February 4, 2003

W. L. WALKER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700